

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



Module (Course Syllabus) Catalogue 2022-2023

College/ Institute	Erbil Technology College		
Department	Automation Industrial Technology		
	Engineering		
Module Name	Mathematic		
Module Code	MAT104		
Degree	Technical Diploma Bachelor v		
	High Diploma Master PhD		
Semester	First		
Qualification	MSc Electronic & control Engineering		
Scientific Title	Lecturer		
ECTS (Credits)	5		
Module type	Prerequisite Core Assist.		
Weekly hours	3		
Weekly hours (Theory)	(2)hr Class (81)Total hrs		
	Workload		
Weekly hours (Practical)	(1)hr Class (98)Total hrs		
	Workload		
Number of Weeks	14		
Lecturer (Theory)	Brzo Aziz Qadir		
E-Mail & Mobile NO.	Brzo.qadir@epu.edu.iq		
Lecturer (Practical)			
E-Mail & Mobile NO.			
Websites	www.Epu.edu.iq		

Course Book

Course Description	. This course provides students with an individualized mathematics curriculum to prepare them for further mathematics course work in their program. Students will take a diagnostic assessment, the results of which will outline their individualized math study path. Due to the individualized nature of this course, not all students are expected to complete all course outcomes. Topics will include: solving and graphing linear equations and inequalities; working with variables, exponents, polynomials, and factoring. Depending on your math pathway, additional topics may include expressions and equations that are rational, radical, quadratic, exponential, and logarithmic.				
Course objectives	The Mathematics program promotes mathematical skills and knowledge for their intrinsic beauty, effectiveness in developing proficiency in analytical reasoning, and utility in modeling and solving real world problems. To responsibly live within and participate in the transformation of a rapidly changing, complex, and interdependent society, students must develop and unceasingly exercise their analytical abilities. Students who have learned to logically question assertions, recognize patterns, and distinguish the essential and irrelevant aspects of problems can think deeply and precisely, nurture the products of their imagination to fruition in reality, and share their ideas and insights while seeking and benefiting from the knowledge and insights of others.				
Chardontle obligation	The presence of students in both lectures and Lab will have additional				
Student's obligation	credit .He /She is required to continuously follow the lectures ,Submits homework and reports .Anticipate				
	Tests or quizzes any time in Class or Lab				
Required Learning	Psychics ,Electronic ,Digital Electronic and Mathematics				
Materials					
		Task	Weight	Due	Relevant Learning
	-	·	(Marks)	Week	Outcome
	ŀ	Paper Review	10		
Evaluation	As	Homework	10		
	Assignments	Class Activity Penort	10		
	ıme	Report	10		
	nts	Seminar			
		Essay			

		Project	5		
	Qui	Z	10		
	Lab		10		
	Midterm Exam		16		
	Fina	al Exam	40		
	Tota	al			
Specific learning outco4me:	comp 2) So desig 3) De 4) De 5) De 6) De 7) De on po 8) Ex cross 9) De desig 10) E	escribing the fund by the fund stalk escribing the fund gn on pcb Explaining pcb ma standards Defining EMC gui	hnical datas of electronic prints of ele entals of pc er (2-32) pc damentals o damentals o ntegrity and damentals o anufacturing delines for p	heets circuits and sinctronic compore b design f analogue circ f high speed di differential sign f power circuit a processes, ge	mulation of the lents uit design on pcb gital circuit design al routing and
Course References:	ISBN: 1584880902 Publication Date: 2003 Calculus 10 edition				
Practical Topics				Week	Outcome
Introduction to Matrix				1	Define Matrix

Practical Topics	Week	Learning Outcome
Introduction to Matrix	1	Define Matrix
Complex Number	2	Learn property of complex number
Solving Electrical Circuit	3	Learn solve different types of

		Electric circuit
Derivative	4	Distinguish between all types Functions
Derivative of Trigonometric functions +Exponential + Logarithmic Functions	5	Given application of Derivatives
Integration	6	Given application different types of examples
Integration By parts	7	Solve the practical examples for
Double Integration	8,9	Explain Application's og integral
Double Integration	10	Applications
Triple Integration	11,12	Solved examples

Extra notes:

I will assess the students continuously through their activities in the class. Any student with thoughts about learning, and suggestions of different way of dealing with difficulties and problems will be very welcomed.

Showing relevant laboratory equipment, technical videos, and other academic activities are part of the course model.

External Evaluator

General evaluation of course objectives and content.

General evaluation of lectures/ Practical sessions.

General evaluation of lecturer.